



Technical Data & Conversion Tables

Recovered Wall Thickness

Polyfit 2:1 Shrink Ratio Tubing

% Recovery	K	% Recovery	K	% Recovery	K
1	0.505	34	0.670	67	0.835
2	0.510	35	0.675	68	0.840
3	0.515	36	0.680	69	0.845
4	0.520	37	0.685	70	0.850
5	0.525	38	0.690	71	0.855
6	0.530	39	0.695	72	0.860
7	0.535	40	0.700	73	0.865
8	0.540	41	0.705	74	0.870
9	0.545	42	0.710	75	0.875
10	0.550	43	0.715	76	0.880
11	0.555	44	0.720	77	0.885
12	0.560	45	0.725	78	0.890
13	0.565	46	0.730	79	0.895
14	0.570	47	0.735	80	0.900
15	0.575	48	0.740	81	0.905
16	0.580	49	0.745	82	0.910
17	0.585	50	0.750	83	0.915
18	0.590	51	0.755	84	0.920
19	0.595	52	0.760	85	0.925
20	0.600	53	0.765	86	0.930
21	0.605	54	0.770	87	0.935
22	0.610	55	0.775	88	0.940
23	0.615	56	0.780	89	0.945
24	0.620	57	0.785	90	0.950
25	0.625	58	0.790	91	0.955
26	0.630	59	0.795	92	0.960
27	0.635	60	0.800	93	0.965
28	0.640	61	0.805	94	0.970
29	0.645	62	0.810	95	0.975
30	0.650	63	0.815	96	0.980
31	0.655	64	0.820	97	0.985
32	0.660	65	0.825	98	0.990
33	0.665	66	0.830	99	0.990

To determine the wall thickness of any 2:1 shrink-ratio at any percentage of recovery, find the percentage recovery in the above table and multiply the fully recovered wall thickness of the tubing by the constant, K, located opposite the percentage of recovery.

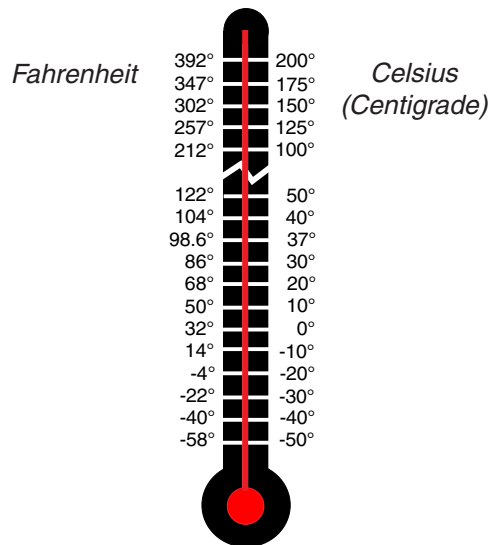
Example: What will the wall thickness of polyfit SWCPLF-100, size 1/8" tubing be when the tubing is recovered 30%?

Solution: Constant K for 30% recovery is 0.650. The fully recovered nominal wall thickness of the tubing per the product specification is 0.020 inches (0.051 mm). 0.020 inches x 0.650 = 0.013 inches or 0.03315 mm wall thickness at 30% recovery.

This method is mathematically correct and the values derived from it are useful in practice. The method and values cannot, however, take into account individual variations in tubing manufacture and nominal values or ranges of tolerances in the specifications of same, or variations in the application of the tubing.

Temperature Conversions

Celsius (Centigrade) to Fahrenheit
Fahrenheit to Celsius



$$F^{\circ} = 9/5 C^{\circ} + 32^{\circ}$$

$$C^{\circ} = (F^{\circ} - 32^{\circ}) / 5/9$$

Mathematical Formulas

Diameter of Circle: circumference ÷ 3.1416

Circumference of Circle: diameter x 3.1416

Area of Circle: radius² x 3.1416 or diameter² x 0.7854

Area of Triangle: base x 0.5 altitude

Area of Parallelogram (incl. rectangle): base x altitude

Surface Area of Sphere: diameter² x 3.1416

Volume of Sphere: diameter³ x 0.5236

Volume of Prism or Cylinder: area of base x altitude

Volume of Pyramid or Cone: area of base x 1/3 altitude

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